

WEST Search History

DATE: Monday, April 05, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L5	L4 and aspart\$	21
<input type="checkbox"/>	L4	L3 with muta\$	42
<input type="checkbox"/>	L3	pyruvate carboxylase	825
<input type="checkbox"/>	L2	L1 and pyruvate	5
<input type="checkbox"/>	L1	hanke.in.	1351

END OF SEARCH HISTORY

First Hit

L2: Entry 1 of 5

File: PGPB

Jan 23, 2003

DOCUMENT-IDENTIFIER: US 20030017557 A1

TITLE: Gene encoding phosphoglucoisomerase

INVENTOR:Hanke, Paul D.Detail Description Paragraph:

[0023] In agreement with the present invention, the altered bacterial cell of the present invention is cultured in a culture medium that comprises a carbon source and a nitrogen source. The carbon source can be, for example, arabinose, cellobiose, fructose, glucose, lactose, maltose, mannose, rhamnose, raffinose, sorbose, sucrose, trehalose, pyruvate, or succinate. The carbon source is preferably at an initial concentration of 0.1 to 10%, preferably 0.5 to 6.0% by weight. All of the carbon source can be added to the medium before the start of culturing, or it can be added step by step or continuously during culturing.

Detail Description Paragraph:

[0035] Most of the glucose catabolized in living organisms proceeds through glycolysis resulting in the formation of pyruvate. The pentose phosphate pathway, also called the hexose monophosphate shunt, is an alternative route for glucose catabolism. The pentose phosphate pathway produces NADPH and under lysine fermentation conditions is more active. Ishino, S. et al., J. Gen. Appl. Microbiol. 3-:157-165 (1991).

Detail Description Paragraph:

[0037] In a preferred embodiment, the present invention further provides a method of producing L-amino acids by culturing an altered bacterial cell with an increased amount of malic enzyme relative to an unaltered cell. Malic enzyme catalyzes the reaction of malate with NADP.sup.+ to produce pyruvate, carbon dioxide, NADPH and H.sup.+.

Detail Description Paragraph:

[0039] Both glycolysis and the pentose phosphate pathway compete for glucose. In the present invention, an altered bacterial cell can be one in which a decrease or blockage of the carbon flux through glycolysis results in an increase in the carbon flux through the oxidative branch of the pentose phosphate pathway. As used in the present invention, an altered bacterial cell can be one in which a decrease in carbon flux through glycolysis is achieved through decreasing the amount of one or more enzyme(s) involved in glycolysis. Preferred enzymes are 6-phosphoglucose isomerase, fructose diphosphate aldolase, D-glyceraldehyde phosphate dehydrogenase, phosphoglycerate kinase, phosphoglycerate mutase, endolase or pyruvate kinase. A preferred enzyme is 6-phosphoglucose isomerase.

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20030017557 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 5

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017557 A1

TITLE: Gene encoding phosphoglucoisomerase

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Hanke</u> , Paul D.	Aurora	IL	US	

US-CL-CURRENT: [435/106](#); [435/191](#), [435/252.3](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWNC	Drawn De
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☐ 2. Document ID: US 20020177202 A1

L2: Entry 2 of 5

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177202 A1

TITLE: Feedback-resistant pyruvate carboxylase gene from corynebacterium

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Hanke</u> , Paul D.	Aurora	IL	US	

US-CL-CURRENT: [435/189](#); [435/193](#), [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWNC	Drawn De
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☐ 3. Document ID: US 6680190 B2

L2: Entry 3 of 5

File: USPT

Jan 20, 2004

US-PAT-NO: 6680190

DOCUMENT-IDENTIFIER: US 6680190 B2

TITLE: Gene encoding phosphoglucosomerase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 4. Document ID: US 6465238 B1

L2: Entry 4 of 5

File: USPT

Oct 15, 2002

US-PAT-NO: 6465238

DOCUMENT-IDENTIFIER: US 6465238 B1

TITLE: Gene encoding phosphoglucosomerase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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☐ 5. Document ID: BR 200114532 A, WO 200231158 A2, AU 200213146 A, US 20020177202 A1, EP 1325135 A2

L2: Entry 5 of 5

File: DWPI

Dec 30, 2003

DERWENT-ACC-NO: 2002-463267

DERWENT-WEEK: 200409

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TITLE: Novel mutated, feedback resistant pyruvate carboxylase enzyme polypeptide, useful for producing amino acids e.g. L-lysine, L-threonine, L-glycine, L-glutamic acid, L-proline and L-methionine and L-isoleucine

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw D
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Terms	Documents
L1 and pyruvate	5

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Search Results - Record(s) 1 through 10 of 21 returned.

☐ 1. Document ID: US 20030228567 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 21

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030228567

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030228567 A1

TITLE: Compostions and methods for modeling Saccharomyces cerevisiae metabolism

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Famili, Imandokht	San Diego	CA	US	
Forster, Jochen	Copenhagen	HI	DK	
Fu, Pengcheng	Honolulu	CA	US	
Nielsen, Jens B.	Charlottenlund		DK	
Palsson, Bernhard O.	La Jolla		US	

US-CL-CURRENT: 435/4; 435/254.21, 435/6, 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Draw. De
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☐ 2. Document ID: US 20030166285 A1

L5: Entry 2 of 21

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166285

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166285 A1

TITLE: Methods and compositions for genetically modifying primate bone marrow cells

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Valerio, Domenico	Leiden		NL	
Van Beusechem, Victor Willem	Amsterdam		NL	

US-CL-CURRENT: 435/456; 435/372

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 3. Document ID: US 20030087381 A1

L5: Entry 3 of 21

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087381

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087381 A1

TITLE: Metabolically engineered organisms for enhanced production of oxaloacetate-derived biochemicals

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gokarn, Ravi R.	Plymouth	MN	US	
Eiteman, Mark A.	Athens	GA	US	
Altman, Elliot	Athens	GA	US	

US-CL-CURRENT: 435/69.1; 435/193, 435/252.3, 435/252.33, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 4. Document ID: US 20030082238 A1

L5: Entry 4 of 21

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082238

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030082238 A1

TITLE: Matrices for drug delivery and methods for making and using the same

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Babich, John W.	North Scituate	MA	US	
Zubieta, Jon	Syracuse	NY	US	
Bonavia, Grant	Kensington	MD	US	

US-CL-CURRENT: 424/491; 424/130.1, 424/94.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 5. Document ID: US 20030027305 A1

L5: Entry 5 of 21

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027305

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027305 A1

TITLE: Pyruvate carboxylase from Corynebacterium glutamicum

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sinskey, Anthony J.	Boston	MA	US	
Lessard, Philip A.	Framingham	MA	US	
Willis, Laura B.	Cambridge	MA	US	

US-CL-CURRENT: [435/189](#); [435/115](#), [435/252.3](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 6. Document ID: US 20020177202 A1

L5: Entry 6 of 21

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177202

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177202 A1

TITLE: Feedback-resistant pyruvate carboxylase gene from corynebacterium

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hanke, Paul D.	Aurora	IL	US	

US-CL-CURRENT: [435/189](#); [435/193](#), [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 7. Document ID: US 6472212 B1

L5: Entry 7 of 21

File: USPT

Oct 29, 2002

US-PAT-NO: 6472212

DOCUMENT-IDENTIFIER: US 6472212 B1

TITLE: Methods and compositions for genetically modifying primate bone marrow cells

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 8. Document ID: US 6455284 B1

L5: Entry 8 of 21

File: USPT

Sep 24, 2002

US-PAT-NO: 6455284

DOCUMENT-IDENTIFIER: US 6455284 B1

TITLE: Metabolically engineered E. coli for enhanced production of oxaloacetate-derived biochemicals

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 9. Document ID: US 6403351 B1

L5: Entry 9 of 21

File: USPT

Jun 11, 2002

US-PAT-NO: 6403351

DOCUMENT-IDENTIFIER: US 6403351 B1

**** See image for Certificate of Correction ****

TITLE: Pyruvate carboxylase polypeptide from Corynebacterium glutamicum

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 10. Document ID: US 6338962 B1

L5: Entry 10 of 21

File: USPT

Jan 15, 2002

US-PAT-NO: 6338962

DOCUMENT-IDENTIFIER: US 6338962 B1

TITLE: Use of a non-mammalian DNA virus to express an exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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Terms	Documents
L4 and aspart\$	21

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[Generate OACS](#)

Search Results - Record(s) 11 through 20 of 21 returned.

☐ 11. Document ID: US 6338953 B1

Using default format because multiple data bases are involved.

L5: Entry 11 of 21

File: USPT

Jan 15, 2002

US-PAT-NO: 6338953

DOCUMENT-IDENTIFIER: US 6338953 B1

TITLE: Expression of an exogenous gene in a mammalian cell by use of a non-mammalian DNA virus having an altered coat protein

DATE-ISSUED: January 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boyce; Frederick M.	Belmont	MA		
Barsoum; James G.	Lexington	MA		

US-CL-CURRENT: [435/69.7](#); [435/252.3](#), [435/320.1](#), [435/325](#), [435/69.1](#), [514/12](#), [536/23.2](#), [536/23.5](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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☐ 12. Document ID: US 6281009 B1

L5: Entry 12 of 21

File: USPT

Aug 28, 2001

US-PAT-NO: 6281009

DOCUMENT-IDENTIFIER: US 6281009 B1

TITLE: Use of a non-mammalian DNA virus to express an exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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☐ 13. Document ID: US 6238914 B1

L5: Entry 13 of 21

File: USPT

May 29, 2001

US-PAT-NO: 6238914

DOCUMENT-IDENTIFIER: US 6238914 B1

h e b b cg b cc e

TITLE: Use of a non-mammalian DNA virus to express an exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 14. Document ID: US 6190887 B1

L5: Entry 14 of 21

File: USPT

Feb 20, 2001

US-PAT-NO: 6190887

DOCUMENT-IDENTIFIER: US 6190887 B1

TITLE: Expression of an exogenous gene in a mammalian cell by use of a non-mammalian DNA virus having an altered coat protein

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 15. Document ID: US 6183993 B1

L5: Entry 15 of 21

File: USPT

Feb 6, 2001

US-PAT-NO: 6183993

DOCUMENT-IDENTIFIER: US 6183993 B1

TITLE: Complement-resistant non-mammalian DNA viruses and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 16. Document ID: US 6171833 B1

L5: Entry 16 of 21

File: USPT

Jan 9, 2001

US-PAT-NO: 6171833

DOCUMENT-IDENTIFIER: US 6171833 B1

TITLE: Pyruvate carboxylase from corynebacterium glutamicum

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 17. Document ID: US 6165500 A

L5: Entry 17 of 21

File: USPT

Dec 26, 2000

US-PAT-NO: 6165500

DOCUMENT-IDENTIFIER: US 6165500 A

TITLE: Preparation for the application of agents in mini-droplets

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 18. Document ID: US 5871986 A

L5: Entry 18 of 21

File: USPT

Feb 16, 1999

US-PAT-NO: 5871986

DOCUMENT-IDENTIFIER: US 5871986 A

TITLE: Use of a baculovirus to express and exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Drawn De
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☐ 19. Document ID: US 5731182 A

L5: Entry 19 of 21

File: USPT

Mar 24, 1998

US-PAT-NO: 5731182

DOCUMENT-IDENTIFIER: US 5731182 A

TITLE: Non-mammalian DNA virus to express an exogenous gene in a mammalian cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Drawn De
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☐ 20. Document ID: BR 200114532 A, WO 200231158 A2, AU 200213146 A, US 20020177202 A1, EP 1325135 A2

L5: Entry 20 of 21

File: DWPI

Dec 30, 2003

DERWENT-ACC-NO: 2002-463267

DERWENT-WEEK: 200409

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TITLE: Novel mutated, feedback resistant pyruvate carboxylase enzyme polypeptide, useful for producing amino acids e.g. L-lysine, L-threonine, L-glycine, L-glutamic acid, L-proline and L-methionine and L-isoleucine

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Drawn De
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Terms

Documents

L4 and aspart\$

21

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☐ 21. Document ID: PH 1199448842 B1, WO 9506114 A1, AU 9480991 A, JP 07111890 A, JP 08070860 A, CZ 9600524 A3, EP 723011 A1, SK 9600204 A3, BR 9407625 A, AU 682547 B, CN 1133615 A, EP 723011 A4, US 5876983 A, US 5919694 A, JP 3013711 B2, RU 2133772 C1, MX 195842 B, HU 219600 B, CZ 289051 B6, EP 723011 B1, DE 69430919 E, KR 337959 B, SK 283369 B6

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L5: Entry 21 of 21

File: DWPI

Apr 16, 2002

DERWENT-ACC-NO: 1995-106843

DERWENT-WEEK: 200382

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TITLE: Variant of phospho-enol pyruvate carboxylase - not substantially inhibited by aspartic acid, is used for efficient production of amino acids

INVENTOR: IZUI, K; MATSUI, H ; SUGIMOTO, M ; SUZUKI, T ; HIROSHI, M ; MASAKAZU, S ; TOMOKO, S ; TOYAMA, T ; MATSUI, H H

PRIORITY-DATA: 1994JP-0153876 (July 5, 1994), 1993JP-0209775 (August 24, 1993), 1993JP-0209776 (August 24, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>PH 1199448842 B1</u>	April 16, 2002		000	C12N015/00
<u>WO 9506114 A1</u>	March 2, 1995	J	077	C12N009/88
<u>AU 9480991 A</u>	March 21, 1995		000	C12N009/88
<u>JP 07111890 A</u>	May 2, 1995		016	C12N009/00
<u>JP 08070860 A</u>	March 19, 1996		026	C12N009/00
<u>CZ 9600524 A3</u>	June 12, 1996		000	C12N009/88
<u>EP 723011 A1</u>	July 24, 1996	E	050	C12N009/88
<u>SK 9600204 A3</u>	November 6, 1996		000	C12N009/88
<u>BR 9407625 A</u>	January 21, 1997		000	C12N009/88
<u>AU 682547 B</u>	October 9, 1997		000	C12N009/88
<u>CN 1133615 A</u>	October 16, 1996		000	C12N009/88
<u>EP 723011 A4</u>	January 1, 1997		000	C12N009/88
<u>US 5876983 A</u>	March 2, 1999		000	C12P013/04
<u>US 5919694 A</u>	July 6, 1999		000	C07H021/04
<u>JP 3013711 B2</u>	February 28, 2000		016	C12N009/00
<u>RU 2133772 C1</u>	July 27, 1999		000	C12N009/88
<u>MX 195842 B</u>	April 4, 2000		000	C07H021/004
<u>HU 219600 B</u>	May 28, 2001		000	C12N009/88

<u>CZ 289051 B6</u>	October 17, 2001		000	C12N009/88
<u>EP 723011 B1</u>	July 3, 2002	E	000	C12N009/88
<u>DE 69430919 E</u>	August 8, 2002		000	C12N009/88
<u>KR 337959 B</u>	November 23, 2002		000	C12N009/88
<u>SK 283369 B6</u>	June 3, 2003		000	C12N009/88

C1 , MX 195842 B INT-CL (IPC): C07H 21/004; C07H 21/04; C12N 1/020; C12N 1/20; C12N 1/21; C12N 9/00; C12N 9/18; C12N 9/88; C12N 15/00; C12N 15/03; C12N 15/09; C12N 15/11; C12N 15/52; C12P 13/04; C12P 13/06; C12P 13/08; C12P 13/10; C12P 13/12 ; C12P 13/14; C12P 13/24; C12N 1/21; C12R 1/01; C12N 1/21; C12R 1/185; C12N 9/00; C12R 1/01; C12N 9/00; C12R 1/185; C12P 13/06; C12R 1/185; C12P 13/06; C12R 1/01; C12P 13/08; C12R 1/185; C12P 13/08; C12R 1/01; C12P 13/10; C12R 1/185; C12P 13/10; C12R 1/01; C12P 13/12; C12R 1/185; C12P 13/14; C12R 1/185; C12P 13/14 ; C12R 1/01; C12P 13/24; C12R 1/185; C12P 13/24; C12R 1/01; C12N 9/00; C12R 1/185; C12N 9/00; C12R 1/01; C12N 1/21; C12R 1/185; C12N 1/21; C12R 1/01; C12N 15/09; C12R 1/185; C12P 13/06; C12R 1/185; C12P 13/06; C12R 1/01; C12P 13/08; C12R 1/185; C12P 13/08; C12R 1/01; C12N 9/00; C12R 1/185; C12N 9/00; C12R 1/01; C12N 15/09; C12R 1/185

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWMC	Draw. De
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PASSWORD:

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NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available
in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPplus
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer
available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
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NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CAPplus
NEWS 22 FEB 05 German (DE) application and patent publication number format
changes
NEWS 23 MAR 03 MEDLINE and LMEDLINE reloaded
NEWS 24 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 25 MAR 03 FRANCEPAT now available on STN
NEWS 26 MAR 29 Pharmaceutical Substances (PS) now available on STN
NEWS 27 MAR 29 WPIFV now available on STN
NEWS 28 MAR 29 No connect hour charges in WPIFV until May 1, 2004
NEWS 29 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:49:36 ON 05 APR 2004

=> fil .eliz		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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=> s hanke, ?/au
L1 7857 HANKE, ?/AU

=> s l1 and pyruvate carboxylase
L2 3 L1 AND PYRUVATE CARBOXYLASE

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3 1 DUP REM L2 (2 DUPLICATES REMOVED)

=> d

L3 ANSWER 1 OF 1 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-16323 BIOTECHDS
TI Novel mutated, feedback resistant ***pyruvate*** ***carboxylase***
enzyme polypeptide, useful for producing amino acids e.g. L-lysine,
L-threonine, L-glycine, L-glutamic acid, L-proline and L-methionine and
L-isoleucine;
plasmid-mediated recombinant enzyme gene transfer and expression in
Corynebacterium sp.
AU ***HANKE P D***
PA ARCHER-DANIELS MIDLAND CO
PI WO 2002031158 18 Apr 2002
AI WO 2000-US31893 13 Oct 2000
PRAI US 2000-239913 13 Oct 2000
DT Patent
LA English
OS WPI: 2002-463267 [49]

=> dis his

(FILE 'HOME' ENTERED AT 11:49:36 ON 05 APR 2004)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,

NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 11:49:49 ON 05 APR 2004
L1 7857 S HANKE, ?/AU
L2 3 S L1 AND PYRUVATE CARBOXYLASE
L3 1 DUP REM L2 (2 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.82	18.03

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PASSWORD:

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SESSION RESUMED IN FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' AT 11:56:41 ON 05 APR 2004
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FILE 'WPIDS' ENTERED AT 11:56:41 ON 05 APR 2004
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.82	18.03

=> s pyruvate carboxylase

L4 9293 PYRUVATE CARBOXYLASE

=> s 14 (5a)(sequence or gene)

6 FILES SEARCHED...

10 FILES SEARCHED...

L5 790 L4 (5A)(SEQUENCE OR GENE)

=> s 15 (5a) muta?

L6 49 L5 (5A) MUTA?

=> s 14 (5a)(feedback or resistant or inhibit?)

9 FILES SEARCHED...

L7 530 L4 (5A)(FEEDBACK OR RESISTANT OR INHIBIT?)

=> s 17 (5a)(aspart?)

L8 94 L7 (5A)(ASPART?)

=> s 16 and 18

L9 3 L6 AND L8

=> dup rem 19

PROCESSING COMPLETED FOR L9

L10 1 DUP REM L9 (2 DUPLICATES REMOVED)

=>
=> d

L10 ANSWER 1 OF 1 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-16323 BIOTECHDS
TI Novel mutated, feedback resistant pyruvate carboxylase enzyme
polypeptide, useful for producing amino acids e.g. L-lysine, L-threonine,
L-glycine, L-glutamic acid, L-proline and L-methionine and L-isoleucine;
plasmid-mediated recombinant enzyme gene transfer and expression in
Corynebacterium sp.
AU HANKE P D
PA ARCHER-DANIELS MIDLAND CO
PI WO 2002031158 18 Apr 2002
AI WO 2000-US31893 13 Oct 2000
PRAI US 2000-239913 13 Oct 2000
DT Patent
LA English
OS WPI: 2002-463267 [49]

=> dup rem l8
PROCESSING COMPLETED FOR L8
L11 44 DUP REM L8 (50 DUPLICATES REMOVED)

=> d 1-10

L11 ANSWER 1 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2003-28643 BIOTECHDS
TI Novel isolated coryneform bacteria cite gene polynucleotide which encodes
polypeptide preferably exhibiting citrate lyase E activity, useful for
production of L-amino acids;
recombinant enzyme protein production via plasmid expression in host
cell useful for L-amino acid production
AU FARWICK M; HUTHMACHER K; MARX A; BATHE B; PFEFFERLE W
PA FARWICK M; HUTHMACHER K; MARX A; BATHE B; PFEFFERLE W
PI US 2003113879 19 Jun 2003
AI US 2001-770688 6 Jun 2001
PRAI US 2001-770688 6 Jun 2001; US 2001-770688 6 Jun 2001
DT Patent
LA English
OS WPI: 2003-801299 [75]

L11 ANSWER 2 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-16323 BIOTECHDS
TI Novel mutated, feedback resistant pyruvate carboxylase enzyme
polypeptide, useful for producing amino acids e.g. L-lysine, L-threonine,
L-glycine, L-glutamic acid, L-proline and L-methionine and L-isoleucine;
plasmid-mediated recombinant enzyme gene transfer and expression in
Corynebacterium sp.
AU HANKE P D
PA ARCHER-DANIELS MIDLAND CO
PI WO 2002031158 18 Apr 2002
AI WO 2000-US31893 13 Oct 2000
PRAI US 2000-239913 13 Oct 2000
DT Patent
LA English
OS WPI: 2002-463267 [49]

L11 ANSWER 3 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-12968 BIOTECHDS
TI New ppsA gene of Coryneform bacteria, useful when overexpressed, for
increasing fermentative production of L-amino acids, encodes a
phosphoenol pyruvate synthase;
vector-mediated pyruvate-water-dikinase gene transfer and expression
in Coryneform glutamicum for enzyme activity enhancement for L-lysine
production
AU MOECKEL B; MARX A; BASTUCK C; BUCHHOLZ M; PFEFFERLE W
PA DEGUSSA AG
PI WO 2002022829 21 Mar 2002
AI WO 2000-EP9456 13 Sep 2000
PRAI DE 2000-1045497 13 Sep 2000
DT Patent
LA English
OS WPI: 2002-362348 [39]

L11 ANSWER 4 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-12574 BIOTECHDS
TI New atr43 gene of coryneform bacteria, useful when suppressed for
increasing fermentative production of L-amino acids, encodes an ABC
transporter protein;
vector expression in host cell for recombinant protein, fermentation,
mutagenesis useful for L-lysine, medicine, food, DNA array and biochip
AU FARWICK M; HUTHMACHER K; PFEFFERLE W
PA DEGUSSA AG
PI WO 2002022814 21 Mar 2002
AI WO 2000-EP8650 15 Sep 2000
PRAI DE 2001-1023070 11 May 2001
DT Patent
LA English
OS WPI: 2002-339870 [37]

L11 ANSWER 5 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-12659 BIOTECHDS
TI New ccsB gene of coryneform bacteria, useful when overexpressed for
increasing fermentative production of L-amino acids, encodes a cytochrome
c synthesis protein;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-amino acid preparation
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; BATHE B; HERMANN T
PA DEGUSSA AG
PI WO 2002022672 21 Mar 2002
AI WO 2000-EP9457 14 Sep 2000
PRAI DE 2000-1045487 14 Sep 2000
DT Patent
LA English
OS WPI: 2002-329948 [36]

L11 ANSWER 6 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-12658 BIOTECHDS
TI New pstC2 gene of coryneform bacteria, useful when suppressed for
increasing fermentative production of L-amino acids, encodes a
membrane-bound phosphate transporter protein;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-amino acid preparation
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; BREHME J
PA DEGUSSA AG
PI WO 2002022671 21 Mar 2002
AI WO 2000-EP9455 14 Sep 2000
PRAI DE 2000-1045486 14 Sep 2000
DT Patent
LA English
OS WPI: 2002-329947 [36]

L11 ANSWER 7 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-12657 BIOTECHDS
TI New sugA gene of coryneform bacteria, useful when suppressed for
increasing fermentative production of L-amino acids, encodes a sugar
transporter protein;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-amino acid preparation
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; HERMANN T; MARX A
PA DEGUSSA AG
PI WO 2002022669 21 Mar 2002
AI WO 2000-EP9164 14 Sep 2000
PRAI DE 2001-1008839 23 Feb 2001
DT Patent
LA English
OS WPI: 2002-329946 [36]

L11 ANSWER 8 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-12656 BIOTECHDS
TI New gorA gene of coryneform bacteria, useful when suppressed for
increasing fermentative production of L-amino acids, encodes a
glutathione reductase;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-amino acid preparation
AU FARWICK M; HUTHMACHER K; PFEFFERLE W; MARX A
PA DEGUSSA AG
PI WO 2002022666 21 Mar 2002
AI WO 2000-EP9314 12 Sep 2000
PRAI DE 2001-1009023 24 Feb 2001

DT Patent
LA English
OS WPI: 2002-329945 [36]

L11 ANSWER 9 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-13089 BIOTECHDS
TI New Atr61 gene of Coryneform bacteria, useful when overexpressed, for increasing fermentative production of L-amino acids, encodes an ABC transporter protein;
vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU FARWICK M; HUTHMACHER K; PFEFFERLE W
PA DEGUSSA AG
PI WO 2002022633 21 Mar 2002
AI WO 2000-EP10522 15 Sep 2000
PRAI DE 2000-1045579 15 Sep 2000

DT Patent
LA English
OS WPI: 2002-362328 [39]

L11 ANSWER 10 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-13334 BIOTECHDS
TI New pknD gene of Coryneform bacteria, useful when overexpressed, for increasing fermentative production of L-amino acids, encodes a protein kinase D protein;
plasmid pK18mobsac-pknD-XuctionL-mediated enzyme gene transfer and expression in Escherichia coli and Corynebacterium glutamicum for L-lysine production

AU BATHE B; SCHROEDER I; FARWICK M; HERMANN T
PA DEGUSSA AG
PI WO 2002022632 21 Mar 2002
AI WO 2000-EP10210 12 Sep 2000
PRAI DE 2001-1020094 25 Apr 2001

DT Patent
LA English
OS WPI: 2002-371967 [40]

=> d 11-20

L11 ANSWER 11 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-11053 BIOTECHDS
TI Novel lysR2 gene of coryneform bacteria encoding LysR2 protein which is a transcription regulator, useful for fermentative production of L-lysine and L-valine and as a probe detecting polynucleotides encoding LysR2;
bacterium recombinant protein production vector expression in host cell, for L-amino acid, L-lysine, L-valine production

AU MOECKEL B; FARWICK M; HERMANN T; KREUTZER C; PFEFFERLE W
PA DEGUSSA AG
PI WO 2002012504 14 Feb 2002
AI WO 2000-EP6808 10 Aug 2000
PRAI DE 2001-1010346 3 Mar 2001

DT Patent
LA English
OS WPI: 2002-227155 [28]

L11 ANSWER 12 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2003-06013 BIOTECHDS
TI New coryneform bacteria gene for subunit beta of RNA polymerase B, useful when overexpressed for increasing fermentative production of amino acids, also its mutants;
vector-mediated recombinant protein gene transfer and expression in host cell for use in food and as a food-additive

AU MOECKEL B; BATHE B; HERMANN T; PFEFFERLE W; BINDER M
PA DEGUSSA AG
PI EP 1239040 11 Sep 2002
AI EP 2002-2501 2 Feb 2002
PRAI DE 2001-1062387 19 Dec 2001; DE 2001-1007229 16 Feb 2001

DT Patent
LA German
OS WPI: 2003-048323 [05]

L11 ANSWER 13 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-14541 BIOTECHDS
TI New L-lactate dehydrogenase gene from coryneform bacteria, useful, when overexpressed, for increasing fermentative production of L-amino acid;

vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU FARWICK M; HUTHMACHER K; BATHE B; PFEFFERLE W
PA DEGUSSA AG
PI EP 1186657 13 Mar 2002
AI EP 2000-117811 9 Sep 2000
PRAI DE 2000-1044681 9 Sep 2000
DT Patent
LA German
OS WPI: 2002-282882 [33]

L11 ANSWER 14 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2003-04181 BIOTECHDS

TI New nucleic acid encoding ribosomal protein 12 of coryneform bacteria, useful, when overexpressed, for increasing fermentative amino acid synthesis;

vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU MOECKEL B; BATHE B; HANS S; KREUTZER C; HERMANN T; PFEFFERLE W; BINDER M
PA DEGUSSA AG
PI DE 10162386 29 Aug 2002
AI DE 2001-1062386 19 Dec 2001
PRAI DE 2001-1007230 16 Feb 2001; DE 2001-1007230 16 Feb 2001
DT Patent
LA German
OS WPI: 2002-714722 [78]

L11 ANSWER 15 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-17445 BIOTECHDS

TI New hemD and hemB genes and polypeptides of coryneform bacteria, useful, when overexpressed, for increasing fermentative production of amino acids;

plasmid-mediated uroporphyrinogen-III synthase and delta-aminolevulinic acid dehydratase gene transfer and expression in Corynebacterium glutamicum for L-lysine production

AU FARWICK M; HUTHMACHER K; SCHISCHKA N; MARX A; PFEFFERLE W
PA DEGUSSA AG
PI DE 10145585 2 May 2002
AI DE 2000-1045585 28 Oct 2000
PRAI DE 2000-1053708 28 Oct 2000
DT Patent
LA German
OS WPI: 2002-445647 [48]

L11 ANSWER 16 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-15600 BIOTECHDS

TI New tmk gene of Coryneform bacteria, useful when suppressed, for increasing fermentative production of L-amino acids, encodes a thymidylate kinase;

L-lysine production by recombinant Corynebacterium glutamicum useful for food, medicine and pharmaceutical industry

AU FARWICK M; HUTHMACHER K; MARX A; PFEFFERLE W
PA DEGUSSA AG
PI DE 10140095 28 Mar 2002
AI DE 2000-1040095 19 Sep 2000
PRAI DE 2000-1046235 19 Sep 2000
DT Patent
LA German
OS WPI: 2002-341601 [38]

L11 ANSWER 17 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-16465 BIOTECHDS

TI New cysD, N, K, E and H genes from coryneform bacteria, useful, when overexpressed, for increasing fermentative production of L-amino acids;

vector plasmid pEC-XK99E-mediated recombinant protein gene transfer and expression in Escherichia coli for use in L-amino acid preparation and medicine, pharmaceutical and food industries

AU FARWICK M; HUTHMACHER K; PFEFFERLE W; SCHISCHKA N; BATHE B
PA DEGUSSA AG
PI DE 10136986 21 Mar 2002
AI DE 2000-1036986 3 Sep 2000
PRAI DE 2001-1009691 28 Feb 2001
DT Patent
LA German
OS WPI: 2002-373165 [41]

L11 ANSWER 18 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2002-16464 BIOTECHDS
 TI RodA genes from coryneform bacteria, useful, when overexpressed, for increasing fermentative production of L-amino acid, especially L-lysine; vector plasmid pEC-XK99E-mediated recombinant protein gene transfer and expression in Escherichia coli for use in L-amino acid preparation and medicine, pharmaceutical and food industries
 AU FARWICK M; HUTHMACHER K; BATHE B; PFEFFERLE W
 PA DEGUSSA AG
 PI DE 10132947 21 Mar 2002
 AI DE 2000-1032947 12 Sep 2000
 PRAI DE 2000-1044943 12 Sep 2000
 DT Patent
 LA German
 OS WPI: 2002-373156 [41]

L11 ANSWER 19 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2002-16463 BIOTECHDS
 TI New ftsX gene from coryneform bacteria, useful, when over expressed, for increasing fermentative production of L-amino acid, especially L-lysine; vector plasmid pEC-XK99E-mediated recombinant protein gene transfer and expression in Escherichia coli for use in L-amino acid preparation, medicine, pharmaceutical and food industries
 AU FARWICK M; HUTHMACHER K; BREHME J; RIEPING M; PFEFFERLE W
 PA DEGUSSA AG
 PI DE 10132176 21 Mar 2002
 AI DE 2000-1032176 12 Sep 2000
 PRAI DE 2000-1044944 12 Sep 2000
 DT Patent
 LA German
 OS WPI: 2002-373154 [41]

L11 ANSWER 20 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2003-07731 BIOTECHDS
 TI New metD gene of coryneform bacteria, useful when suppressed, for increasing fermentative production of L-amino acids, e.g. for animal nutrition; Corynebacterium glutamicum fermentation for methionine and lysine production
 AU REY D; RUECKERT C; BATHE B; HUTHMACHER K; PFEFFERLE W; PUEHLER A; KALINOWSKI J
 PA DEGUSSA AG
 PI DE 10126164 5 Dec 2002
 AI DE 2001-1026164 30 May 2001
 PRAI DE 2001-1026164 30 May 2001; DE 2001-1026164 30 May 2001
 DT Patent
 LA German
 OS WPI: 2003-141912 [14]

=> d 21-30

L11 ANSWER 21 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2002-18760 BIOTECHDS
 TI New polynucleotide representing mtrA and B genes of coryneform bacteria, useful, when suppressed, for increasing fermentative production of amino acids; vector-mediated recombinant protein gene transfer and expression in host cell and fermentation for use in medicine, pharmaceutical and food industry, as feedstuff, DNA primer, DNA probe, DNA microarray and DNA chip
 PA DEGUSSA AG; FORSCHUNGSZENTRUM JUELICH GMBH
 PI DE 10125089 23 May 2002
 AI DE 2000-1025089 22 Nov 2000
 PRAI DE 2000-1057802 22 Nov 2000
 DT Patent
 LA German
 OS WPI: 2002-510237 [55]

L11 ANSWER 22 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
 AN 2002-14941 BIOTECHDS
 TI New dep34 gene from coryneform bacteria, useful, when inactivated, for increasing fermentative production of L-amino acid, especially L-lysine; plasmid-mediated inactivated mutant gene transfer and expression in Corynebacterium glutamicum for use in food and pharmaceutical industry
 AU FARWICK M; HUTHMACHER K; HERMANN T; BATHE B; PFEFFERLE W

PA DEGUSSA AG
PI DE 10112429 21 Mar 2002
AI DE 2000-1012429 9 Sep 2000
PRAI DE 2000-1044708 9 Sep 2000
DT Patent
LA German
QS WPI: 2002-316816 [36]

L11 ANSWER 23 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-15772 BIOTECHDS
TI New menE gene of coryneform bacteria, useful when suppressed for increasing fermentative production of L-amino acids, encodes an O-succinylbenzoic acid CoA-ligase;
vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU FARWICK M; HUTHMACHER K; PFEFFERLE W; MARX A
PA DEGUSSA AG
PI DE 10112106 28 Mar 2002
AI DE 2000-1012106 20 Sep 2000
PRAI DE 2000-1046624 20 Sep 2000
DT Patent
LA German
OS WPI: 2002-331278 [37]

L11 ANSWER 24 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2003-01018 BIOTECHDS
TI New trehalose-6-phosphate synthase gene from coryneform bacteria, useful, when suppressed for increasing fermentative production of amino acids, especially lysine;
vector-mediated gene transfer and expression in host cell for strain improvement and amino acid preparation

AU HERMANN T; WOLF A; MORBACH S; KRAEMER R
PA DEGUSSA AG
PI DE 10110760 1 Aug 2002
AI DE 2001-1010760 7 Mar 2001
PRAI DE 2001-1003873 30 Jan 2001; DE 2001-1003873 30 Jan 2001
DT Patent
LA German
OS WPI: 2002-600944 [65]

L11 ANSWER 25 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-15771 BIOTECHDS
TI New pepC gene of Coryneform bacteria, useful when suppressed, for increasing fermentative production of L-amino acids, encodes an aminopeptidase I;
vector-mediated gene transfer and expression in host cell for strain improvement and L-lysine preparation

AU FARWICK M; HUTHMACHER K; BATHE B; RIEPING M; PFEFFERLE W
PA DEGUSSA AG
PI DE 10108828 28 Mar 2002
AI DE 2000-1008828 19 Sep 2000
PRAI DE 2000-1046229 19 Sep 2000
DT Patent
LA German
OS WPI: 2002-331276 [37]

L11 ANSWER 26 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-18235 BIOTECHDS
TI New polynucleotide encoding the CysQ transporter of coryneform bacteria, useful, when over expressed, for increasing fermentative production of amino acids;
vector-mediated recombinant protein gene transfer and expression in host cell and fermentation for use in L-amino acid preparation

AU FARWICK M; HUTHMACHER K; BATHE B; PFEFFERLE W
PA DEGUSSA AG
PI DE 10057801 23 May 2002
AI DE 2000-1057801 22 Nov 2000
PRAI DE 2000-1057801 22 Nov 2000
DT Patent
LA German
OS WPI: 2002-509931 [55]

L11 ANSWER 27 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-15769 BIOTECHDS
TI New dps gene of coryneform bacteria, useful when overexpressed, for increasing fermentative production of L-amino acids, encodes a

DNA-protection protein;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-lysine preparation

AU BATHE B; KREUTZER C; RIEPING M; MARX A; FARWICK M; PFEFFERLE W
PA DEGUSSA AG
PI DE 10046623 28 Mar 2002
AI DE 2000-1046623 20 Sep 2000
PRAI DE 2000-1046623 20 Sep 2000
DT Patent
LA German
OS WPI: 2002-331127 [37]

L11 ANSWER 28 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-15768 BIOTECHDS
TI New polynucleotide from coryneform bacteria, useful when overexpressed
for increasing fermentative amino acid production, encodes sigma factor
D;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-lysine preparation

AU BATHE B; KREUTZER C; MARTENS M; FARWICK M; HERRMANN T; PFEFFERLE W
PA DEGUSSA AG
PI DE 10043331 14 Mar 2002
AI DE 2000-1043331 2 Sep 2000
PRAI DE 2000-1043331 2 Sep 2000
DT Patent
LA German
OS WPI: 2002-316723 [36]

L11 ANSWER 29 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-15767 BIOTECHDS
TI New polynucleotide from coryneform bacteria, useful when weakened, for
increasing fermentative amino acid production, encodes lipoic acid
synthetase;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-lysine preparation

AU MOECKEL B; PFEFFERLE W; BUCHHOLZ M
PA DEGUSSA AG
PI DE 10042742 14 Mar 2002
AI DE 2000-1042742 31 Aug 2000
PRAI DE 2000-1042742 31 Aug 2000
DT Patent
LA German
OS WPI: 2002-316714 [36]

L11 ANSWER 30 OF 44 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 2002-15766 BIOTECHDS
TI New polynucleotide from coryneform bacteria, useful, when weakened, for
increasing fermentative amino acid production, encodes lipoprotein ligase
B;
vector-mediated gene transfer and expression in host cell for strain
improvement and L-lysine preparation

AU MOECKEL B; PFEFFERLE W; BUCHHOLZ M
PA DEGUSSA AG
PI DE 10042739 14 Mar 2002
AI DE 2000-1042739 31 Aug 2000
PRAI DE 2000-1042739 31 Aug 2000
DT Patent
LA German
OS WPI: 2002-316713 [36]

=> d 31-40

L11 ANSWER 31 OF 44 MEDLINE on STN DUPLICATE 31
AN 2002646773 MEDLINE
DN PubMed ID: 12406733
TI Effect of pyruvate carboxylase overexpression on the physiology of
Corynebacterium glutamicum.
AU Koffas Mattheos A G; Jung Gyoo Yeol; Aon Juan C; Stephanopoulos Gregory
CS Department of Chemical Engineering, Massachusetts Institute of Technology,
Cambridge, Massachusetts 02139, USA.
SO Applied and environmental microbiology, (2002 Nov) 68 (11) 5422-8.
Journal code: 7605801. ISSN: 0099-2240.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Priority Journals
EM 200212
ED Entered STN: 20021031
Last Updated on STN: 20021218
Entered Medline: 20021217

L11 ANSWER 32 OF 44 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

AN 2001-368419 [39] WPIDS

DNC C2001-113145

TI New isolated polynucleotide encoding phosphoglycerate mutase of coryneform bacteria, useful, when overexpressed, for increasing fermentative production of amino acids.

DC B05 D13 D16 E19

IN MOCKEL, B; PFEFFERLE, W; MOECKEL, B

PA (DEGS) DEGUSSA-HUELS AG; (DEGS) DEGUSSA AG; (MOCK-I) MOCKEL B; (PFEF-I) PFEFFERLE W

CYC 37

PI DE 19958160 A1 20010607 (200139)* 11p C07K014-34

AU 2000071773 A 20010607 (200139) C12P013-04

EP 1104812 A1 20010606 (200140) DE C12N015-61

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI TR

CA 2325594 A1 20010602 (200144) EN C12N015-10

BR 2000005699 A 20010731 (200146) C07H021-04

JP 2001197891 A 20010724 (200147) 14p C12N015-09

ZA 2000007083 A 20010829 (200157) 40p C07K000-00

CN 1304999 A 20010725 (200164) C12N015-10

KR 2001062075 A 20010707 (200175) C12N015-54

US 2002002275 A1 20020103 (200207) C07H021-02

SK 2000001795 A3 20020205 (200213) C07K014-34

HU 2000004782 A1 20021028 (200277) C12N015-61

MX 2000010969 A1 20020601 (200365) C12N015-61

ADT DE 19958160 A1 DE 1999-19958160 19991202; AU 2000071773 A AU 2000-71773

20001122; EP 1104812 A1 EP 2000-123955 20001103; CA 2325594 A1 CA

2000-2325594 20001130; BR 2000005699 A BR 2000-5699 20001204; JP

2001197891 A JP 2000-363631 20001129; ZA 2000007083 A ZA 2000-7083

20001130; CN 1304999 A CN 2000-134608 20001201; KR 2001062075 A KR

2000-72550 20001201; US 2002002275 A1 US 2000-725178 20001129; SK

2000001795 A3 SK 2000-1795 20001127; HU 2000004782 A1 HU 2000-4782

20001201; MX 2000010969 A1 MX 2000-10969 20001108

PRAI DE 1999-19958160 19991202

IC ICM C07H021-02; C07H021-04; C07K000-00; C07K014-34; C12N015-09;

C12N015-10; C12N015-54; C12N015-61; C12P013-04

ICS C07H021-00; C12N001-20; C12N001-21; C12N009-90; C12N015-11;

C12N015-31; C12N015-52; C12N015-67; C12P013-08; C12Q001-68;

C12R001-15

ICI C12P013-04; C12R001:15; C12N001-21; C12N015-09; C12P013-08; C12Q001-68;

C12R001:15; C12R001:15; C12R001:15; C12R001:15

L11 ANSWER 33 OF 44 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

AN 2001-368418 [39] WPIDS

DNC C2001-113144

TI New isolated polynucleotide encoding glucokinase of coryneform bacteria, useful, when overexpressed, for increasing fermentative production of amino acids.

DC B05 D13 D16 E19

IN MOCKEL, B; PFEFFERLE, W; MOECKEL, B

PA (DEGS) DEGUSSA-HUELS AG; (DEGS) DEGUSSA AG; (MOCK-I) MOCKEL B; (PFEF-I) PFEFFERLE W

CYC 37

PI DE 19958159 A1 20010607 (200139)* 11p C07K014-34

AU 2000071988 A 20010607 (200139) C12N015-31

EP 1106694 A1 20010613 (200141) DE C12N015-54

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI TR

CA 2325227 A1 20010602 (200144) EN C12N015-54

JP 2001204481 A 20010731 (200148) 17p C12N015-09

BR 2000005678 A 20010821 (200155) C12N015-54

ZA 2000007078 A 20010829 (200157) 37p C07K000-00

SK 2000001794 A3 20011008 (200163) C12N015-54

CN 1305000 A 20010725 (200164) C12N015-10

KR 2001062078 A 20010707 (200175) C12N015-54

US 2002040129 A1 20020404 (200227) C07H021-02

US 2003022320 A1 20030130 (200311) C12P013-04

HU 2000004783 A1 20030328 (200333) C12N015-54

MX 2000011815 A1 20020601 (200365) C12N015-54

ADT DE 19958159 A1 DE 1999-19958159 19991202; AU 2000071988 A AU 2000-71988
20001204; EP 1106694 A1 EP 2000-125716 20001124; CA 2325227 A1 CA
2000-2325227 20001129; JP 2001204481 A JP 2000-363632 20001129; BR
2000005678 A BR 2000-5678 20001201; ZA 2000007078 A ZA 2000-7078 20001130;
SK 2000001794 A3 SK 2000-1794 20001127; CN 1305000 A CN 2000-134610
20001201; KR 2001062078 A KR 2000-72627 20001202; US 2002040129 A1 US
2000-725898 20001130; US 2003022320 A1 Div ex US 2000-725898 20001130, US
2002-197541 20020718; HU 2000004783 A1 HU 2000-4783 20001201; MX
2000011815 A1 MX 2000-11815 20001129

PRAI DE 1999-19958159 19991202

IC ICM C07H021-02; C07K000-00; C07K014-34; C12N015-09; C12N015-10;
C12N015-31; C12N015-54; C12P013-04

ICS C07H021-00; C07H021-04; C12N001-21; C12N009-02; C12N009-04;
C12N009-10; C12N009-12; C12N009-14; C12N009-88; C12N009-90;
C12N015-11; C12N015-52; C12N015-63; C12N015-74; C12P013-08;
C12P021-02; C12R001-15

ICI C12P013-04, C12R001:15; C12N001-21; C12N009-02; C12N009-04; C12N009-12;
C12N009-14; C12N009-88; C12N009-90; C12N015-09; C12P013-08;
C12R001:15; C12R001:15; C12R001:15; C12R001:15; C12R001:15;
C12R001:15; C12R001:15; C12R001:15; C12R001:15

L11 ANSWER 34 OF 44 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

AN 1995-106843 [14] WPIDS

DNC C1995-048689

TI Variant of phospho-enol ***pyruvate*** ***carboxylase*** - not
substantially ***inhibited*** by ***aspartic*** acid, is used for
efficient production of amino acids.

DC B04 B05 D16 E19

IN IZUI, K; MATSUI, H; SUGIMOTO, M; SUZUKI, T; HIROSHI, M; MASAKAZU, S;
TOMOKO, S; TOYAMA, T; MATSUI, H H

PA (AJIN) AJINOMOTO KK

CYC 32

PI WO 9506114 A1 19950302 (199514)* JA 77p C12N009-88

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

W: AU BR CA CN CZ HU KR PL RU SK US VN

AU 9480991 A 19950321 (199526) C12N009-88

JP 07111890 A 19950502 (199526) 16p C12N009-00

JP 08070860 A 19960319 (199621) 26p C12N009-00

CZ 9600524 A3 19960612 (199631) C12N009-88

EP 723011 A1 19960724 (199634) EN 50p C12N009-88

R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

SK 9600204 A3 19961106 (199702) C12N009-88

BR 9407625 A 19970121 (199710) C12N009-88

AU 682547 B 19971009 (199749) C12N009-88

CN 1133615 A 19961016 (199802) C12N009-88

EP 723011 A4 19970101 (199841) C12N009-88

US 5876983 A 19990302 (199916) C12P013-04

US 5919694 A 19990706 (199933) C07H021-04

JP 3013711 B2 20000228 (200015) 16p C12N009-00

RU 2133772 C1 19990727 (200030) C12N009-88

MX 195842 B 20000404 (200124) C07H021-004

HU 219600 B 20010528 (200140) C12N009-88

CZ 289051 B6 20011017 (200172) C12N009-88

EP 723011 B1 20020703 (200243) EN C12N009-88

R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DE 69430919 E 20020808 (200259) C12N009-88

KR 337959 B 20021123 (200333) C12N009-88

SK 283369 B6 20030603 (200345) C12N009-88

PH 1199448842 B1 20020416 (200382) C12N015-00

ADT WO 9506114 A1 WO 1994-JP1365 19940817; AU 9480991 A AU 1994-80991

19940817; JP 07111890 A JP 1994-196777 19940822; JP 08070860 A JP

1994-196778 19940822; CZ 9600524 A3 CZ 1996-524 19940817; EP 723011 A1 EP

1994-924384 19940817, WO 1994-JP1365 19940817; SK 9600204 A3 WO

1994-JP1365 19940817, SK 1996-204 19940817; BR 9407625 A BR 1994-7625

19940817, WO 1994-JP1365 19940817; AU 682547 B AU 1994-80991 19940817; CN

1133615 A CN 1994-193905 19940817; EP 723011 A4 EP 1994-924384 19940817;

US 5876983 A WO 1994-JP1365 19940817, US 1996-596366 19960429; US 5919694

A Div ex WO 1994-JP1365 19940817, Div ex US 1996-596366 19960429, US

1997-967104 19971110; JP 3013711 B2 JP 1994-196777 19940822; RU 2133772 C1

WO 1994-JP1365 19940817, RU 1996-107112 19940817; MX 195842 B MX 1994-6418

19940823; HU 219600 B WO 1994-JP1365 19940817, HU 1996-240 19940817; CZ

289051 B6 WO 1994-JP1365 19940817, CZ 1996-524 19940817; EP 723011 B1 EP

1994-924384 19940817, WO 1994-JP1365 19940817; DE 69430919 E DE

1994-630919 19940817, EP 1994-924384 19940817, WO 1994-JP1365 19940817; KR

337959 B WO 1994-JP1365 19940817, KR 1996-700741 19960214; SK 283369 B6 WO

1994-JP1365 19940817, SK 1996-204 19940817; PH 1199448842 B1 PH 1994-48842

19940823

FDT AU 9480991 A Based on WO 9506114; EP 723011 A1 Based on WO 9506114; BR 9407625 A Based on WO 9506114; AU 682547 B Previous Publ. AU 9480991, Based on WO 9506114; US 5876983 A Based on WO 9506114; JP 3013711 B2 Previous Publ. JP 07111890; RU 2133772 C1 Based on WO 9506114; HU 219600 B Previous Publ. HU 73690, Based on WO 9506114; CZ 289051 B6 Previous Publ. CZ 9600524, Based on WO 9506114; EP 723011 B1 Based on WO 9506114; DE 69430919 E Based on EP 723011, Based on WO 9506114; KR 337959 B Previous Publ. KR 96704029, Based on WO 9506114; SK 283369 B6 Previous Publ. SK 9600204, Based on WO 9506114

PRAI JP 1993-209775 19930824; JP 1993-209776 19930824; JP 1994-153876 19940705

IC ICM C07H021-004; C07H021-04; C12N009-00; C12N009-88; C12N015-00; C12P013-04

ICS C12N001-020; C12N001-20; C12N001-21; C12N009-18; C12N015-03; C12N015-11; C12N015-52; C12P013-06; C12P013-08; C12P013-10; C12P013-12; C12P013-14; C12P013-24

ICA C12N015-09

ICI C12N001-21, C12R001:01; C12N001-21, C12R001:185; C12N009-00, C12R001:01; C12N009-00, C12R001:185; C12P013-06, C12R001:185; C12P013-06, C12R001:01; C12P013-08, C12R001:185; C12P013-08, C12R001:01; C12P013-10, C12R001:185; C12P013-10, C12R001:01; C12P013-12, C12R001:185; C12P013-14, C12R001:185; C12P013-14, C12R001:01; C12P013-24, C12R001:185; C12P013-24, C12R001:01; C12N009-00, C12R001:185; C12N009-00, C12R001:01; C12N001-21, C12R001:185; C12N001-21, C12R001:01; C12N015-09, C12R001:185; C12P013-06, C12R001:185; C12P013-06, C12R001:01; C12P013-08, C12R001:185; C12P013-08, C12R001:01; C12N009-00, C12R001:185; C12N009-00, C12R001:01; C12N015-09, C12R001:185

L11 ANSWER 35 OF 44 MEDLINE on STN DUPLICATE 32

AN 89374349 MEDLINE

DN PubMed ID: 2775312

TI Potentiation of benzoate toxicity by glyoxylate. Inhibition of pyruvate carboxylase and the urea cycle.

AU Cyr D M; Tremblay G C

CS Department of Biochemistry and Biophysics, University of Rhode Island, Kingston 02881.

NC DK33536 (NIDDK)

SO Biochemical pharmacology, (1989 Sep 1) 38 (17) 2919-23. Journal code: 0101032. ISSN: 0006-2952.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 198909

ED Entered STN: 19900309
Last Updated on STN: 1990129
Entered Medline: 19890927

L11 ANSWER 36 OF 44 MEDLINE on STN DUPLICATE 33

AN 88139221 MEDLINE

DN PubMed ID: 3325498

TI Regulation of reductive production of succinate under anaerobic conditions in baker's yeast.

AU Muratsubaki H

CS Department of Clinical Biochemistry, Faculty of Health Science, Kyorin University, Tokyo.

SO Journal of biochemistry, (1987 Oct) 102 (4) 705-14. Journal code: 0376600. ISSN: 0021-924X.

CY Japan

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 198803

ED Entered STN: 19900308
Last Updated on STN: 19900308
Entered Medline: 19880325

L11 ANSWER 37 OF 44 MEDLINE on STN DUPLICATE 34

AN 86164336 MEDLINE

DN PubMed ID: 3514213

TI Pyruvate carboxylase from *Saccharomyces cerevisiae*. Quaternary structure, effects of allosteric ligands and binding of avidin.

AU Rohde M; Lim F; Wallace J C

SO European journal of biochemistry / FEBS, (1986 Apr 1) 156 (1) 15-22.

Journal code: 0107600. ISSN: 0014-2956.
CY GERMANY, WEST: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198605
ED Entered STN: 19900321
Last Updated on STN: 19900321
Entered Medline: 19860519

L11 ANSWER 38 OF 44 MEDLINE on STN DUPLICATE 35
AN 85127007 MEDLINE
DN PubMed ID: 3971971
TI The sub-cellular localisation and regulatory properties of pyruvate
carboxylase from *Rhizopus arrhizus*.
AU Osmani S A; Scrutton M C
SO European journal of biochemistry / FEBS, (1985 Feb 15) 147 (1) 119-28.
Journal code: 0107600. ISSN: 0014-2956.
CY GERMANY, WEST: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198504
ED Entered STN: 19900320
Last Updated on STN: 19900320
Entered Medline: 19850410

L11 ANSWER 39 OF 44 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1982:255011 BIOSIS
DN PREV198274027491; BA74:27491
TI EFFECT OF SALT STRESS ON THE STRUCTURE AND CARBON FLOW MECHANISM IN A
NOXIOUS WEED PARTHENIUM-HYSTEROPHORUS.
AU HEGDE B A [Reprint author]; PATIL T M
CS DEP BOTANY, SHIVAJI UNIV, KOLHAPUR 416004, INDIA
SO Weed Research, (1982) Vol. 22, No. 1, pp. 51-56.
CODEN: WEREAT. ISSN: 0043-1737.
DT Article
FS BA
LA ENGLISH

L11 ANSWER 40 OF 44 LIFESCI COPYRIGHT 2004 CSA on STN DUPLICATE 36
AN 81:32458 LIFESCI
TI Pyruvate Carboxylase From *Aspergillus nidulans* Regulatory Properties.
AU Osmani, S.A.; Marston, F.A.O.; Selmes, P.; Chapman, A.G.; Scrutton, M.C.
CS Dept. Biochem., Univ. London King's Coll., London, UK
SO Eur. J. BIOCHEM., (1981) vol. 118, no. 2, pp. 271-278.
DT Journal
FS L; K
LA English
SL English

=> d 41-44

L11 ANSWER 41 OF 44 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1978:192548 BIOSIS
DN PREV197866005045; BA66:5045
TI PYRUVATE CARBOXYLASE FROM A THERMOPHILIC BACILLUS STUDIES ON THE
SPECIFICITY OF ACTIVATION BY ACYL DERIVATIVES OF COENZYME A AND ON THE
PROPERTIES OF CATALYSIS IN THE ABSENCE OF ACTIVATOR.
AU LIBOR S M [Reprint author]; SUNDARAM T K; SCRUTTON M C
CS DEP BIOCHEM, UNIV MANCH INST SCI TECHNOL, MANCHESTER M60 1 QD, ENGL, UK
SO Biochemical Journal, (1978) Vol. 169, No. 3, pp. 543-558.
ISSN: 0264-6021.
DT Article
FS BA
LA ENGLISH

L11 ANSWER 42 OF 44 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1970:494890 HCAPLUS
DN 73:94890
TI Metabolism of microorganisms important in food technology. IX. Pyruvic
carboxylase in *Penicillium caemberti* var *candidum*. 2. Kinetic properties
of the enzyme
AU Schormueller, Josef; Stan, Hans J.
CS Inst. Lebensmittelchem. Lebensmitteltechnol., Tech. Univ. Berlin, Berlin,

Fed. Rep. Ger.
SO Zeitschrift fuer Lebensmittel-Untersuchung und -Forschung (1970), 142(4),
268-75
CODEN: ZLUFAR; ISSN: 0044-3026
DT Journal
LA German

L11 ANSWER 43 OF 44 MEDLINE on STN
AN 67178602 MEDLINE
DN PubMed ID: 5970498
TI ***Inhibition*** of yeast ***pyruvate*** ***carboxylase*** by
L- ***aspartate*** and oxaloacetate.
AU Palacian E; de Torriontegui G; Losada M
SO Biochemical and biophysical research communications, (1966 Sep 8) 22 (5)
644-9.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 196709
ED Entered STN: 19900101
Last Updated on STN: 19970203
Entered Medline: 19670907

L11 ANSWER 44 OF 44 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1966:484246 HCAPLUS
DN 65:84246
OREF 65:15824f-g
TI ***Inhibition*** of yeast ***pyruvate*** ***carboxylase*** by
l- ***aspartate*** and oxaloacetate
AU Palacian, E.; de Torriontegui, G.; Losada, M.
CS Inst. Biol. Celular, Madrid
SO Biochemical and Biophysical Research Communications (1966), 24(5), 644-9
CODEN: BBRC9; ISSN: 0006-291X
DT Journal
LA English

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(FILE 'HOME' ENTERED AT 11:49:36 ON 05 APR 2004)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
NTIS, ESBIODASE, BIOTECHNO, WPIDS' ENTERED AT 11:49:49 ON 05 APR 2004

L1 7857 S HANKE, ?/AU
L2 3 S L1 AND PYRUVATE CARBOXYLASE
L3 1 DUP REM L2 (2 DUPLICATES REMOVED)
L4 9293 S PYRUVATE CARBOXYLASE
L5 790 S L4 (5A) (SEQUENCE OR GENE)
L6 49 S L5 (5A) MUTA?
L7 530 S L4 (5A) (FEEDBACK OR RESISTANT OR INHIBIT?)
L8 94 S L7 (5A) (ASPART?)
L9 3 S L6 AND L8
L10 1 DUP REM L9 (2 DUPLICATES REMOVED)
L11 44 DUP REM L8 (50 DUPLICATES REMOVED)

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

76.90

77.11

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 12:03:03 ON 05 APR 2004